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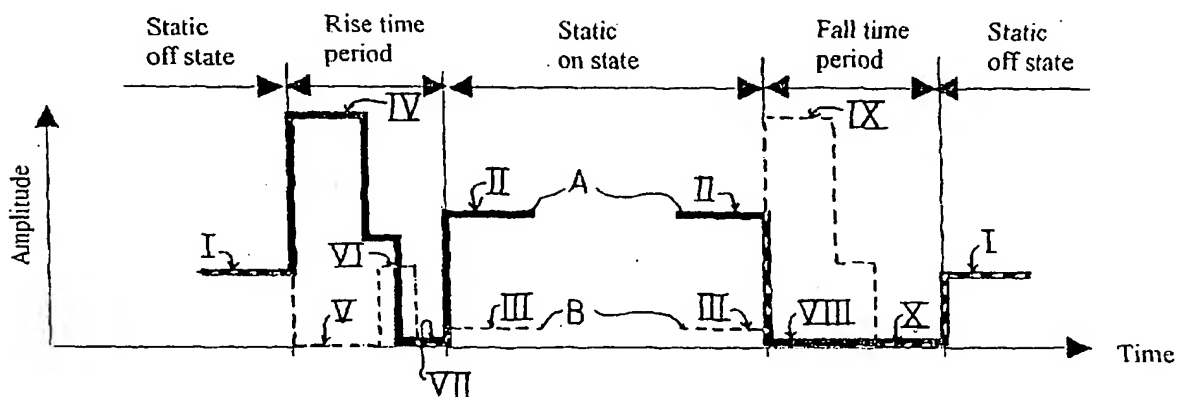
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- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR CONTROLLING AN OPTOELECTRONIC COMPONENT



(57) Abstract: A method for controlling an optoelectronic component that includes two waveguides (3 and 4). The refractive index of the first waveguide (3) is changed periodically with a first control signal (1), the amplitude of which is changed between a first amplitude level (I) and higher second amplitude level (II). The refractive index of the second waveguide (4) is changed periodically with a second control signal (2), the amplitude of which is changed between the aforementioned first amplitude level (I) and a lower third amplitude level (III). When the control signals are on their common first amplitude level (I), the refractive indices of the waveguides are equal and the phase difference between them is zero. When the first control signal is on the second amplitude level (II) and the second control signal on the third amplitude level (III), the refractive indices of the waveguides are unequal so that their mutual phase difference has a predetermined target value. For accelerating a phase-difference change both control signals are adjusted during both the rise and the fall time periods simultaneously so that their combined effect leads to a very fast phase difference change, which settles already before the refractive indices of the waveguides are settled.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/03/00649

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G02F 1/01, G02F 1/313, G02F 1/225
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6351578 B1 (M.BRINKMAN ET AL), 26 February 2002 (26.02.02), figure 8A, abstract --	1-20
A	US 6278822 B1 (E.DAWNAY), 21 August 2001 (21.08.01), abstract --	1-20
A	PATENT ABSTRACTS OF JAPAN vol.008,no.282 (P323) 22 December 1984(1984-12-22) & JP 59148031 A (TATEISHI DENKI KK) 24 August 1984 (1984-08-24) abstract --	1-20

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0674210 A2 (FUJITSU LTD.), 27 Sept 1995 (27.09.95) --	1-20
A	US 6233070 B1 (Y.LU ET AL), 15 May 2001 (15.05.01), abstract -- -----	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

06/09/03

International application No.

PCT/FI 03/00649

Patent document cited in search report			Publication date	Patent family member(s)			Publication date	
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